

I claim:

1. A muzzle brake for attachment to a firearm muzzle, said muzzle brake for dissipating a recoil force created by discharging said firearm, said muzzle brake comprising:

a body having a first end adapted for attachment to said muzzle, an outer surface extending from said first end to a second end along a generally longitudinal axis, a central bore having a desired diameter extending therethrough along said longitudinal axis, said body defining at least one opening within said body having a longitudinal dimension and a lateral dimension wherein said longitudinal dimension is greater than said lateral dimension, said opening connecting said central bore to said outer surface.

2. The muzzle brake of claim 1 wherein said body further defines a plurality of radial gas holes, within said body, each radial gas hole having a perimeter and extending radially from said central bore to said outer surface.

3. The muzzle brake of claim 2 wherein said radial gas holes are generally linearly disposed along said longitudinal axis of said body.

4. The muzzle brake of claim 3 wherein said opening is defined by at least one of said radial gas holes, connected to at least one channel defined within said outer surface.

5. The muzzle brake of claim 3 wherein said opening is a first radial gas hole defined within said body having a first radial gas hole perimeter, and extending from said central bore to said outer surface, said first radial gas hole connected to a first channel defined within said outer surface, said first channel connected to a second radial gas hole defined within said body having a second radial gas hole perimeter, and extending radially from said central bore to said outer surface.

6. The muzzle brake of claim 3 wherein said opening is a first radial gas hole defined within said body having a first radial gas hole perimeter, and extending from said central bore to said outer surface, said first radial gas hole connected to a first channel defined within said outer surface, said first channel connected to a second radial gas hole defined within said body having a second radial gas hole perimeter, and extending radially from said central bore to said outer surface; said second radial gas hole being connected to a second channel, defined within said outer surface, said second channel connected to a third gas hole defined within said body having a third gas hole perimeter and extending from said central bore to said outer surface.

7. The muzzle brake of claim 6 wherein said first channel and said second channel are grooves defined within said outer surface.

8. The muzzle brake of claim 6 wherein said first channel and said second channel extend from said outer surface to said central bore.

9. The muzzle brake of claim 3 wherein said opening is a first radial gas hole defined within said body having a first radial gas hole perimeter, and extending from said central bore to said outer surface, said first radial gas hole connected to a second radial gas hole defined within said body having a second radial gas hole perimeter, and extending radially from said central bore to said outer surface, wherein said first radial gas hole perimeter overlaps said second gas hole perimeter.

10. The muzzle brake of claim 3 wherein said opening is a first radial gas hole defined within said body having a first radial gas hole perimeter, and extending from said central bore to said outer surface, said first radial gas hole positioned proximate to a second radial gas hole defined within said body having a second radial gas hole perimeter, and extending from said central bore to said outer surface, said second radial gas hole positioned proximate to a third gas hole defined within said body having a third gas hole perimeter and extending from said central bore to said outer surface wherein said first radial gas hole perimeter overlaps said second gas hole perimeter, and said second gas hole perimeter overlaps said first gas hole perimeter and said third gas hole perimeter.

11. The muzzle brake of claim 3 wherein said opening is a first connector pore defined within said body having a first connector pore perimeter and extending from said central bore to said outer surface, said first connector pore connected to a first radial gas hole defined within in said body having a first radial gas hole perimeter and extending from said central bore to said outer surface, said first connector pore perimeter overlapping said first radial gas hole perimeter, said first radial gas hole also connected to a second connector pore defined within said body having a second connector pore perimeter and extending from said central bore to said outer surface, said second connector pore perimeter overlapping said first radial gas hole perimeter, said second connector pore also connected to a second radial gas hole defined within said body having a second radial gas hole perimeter and extending from said central bore to said outer surface, said second radial gas hole perimeter overlapping said second connector pore perimeter, said second radial gas hole also connected to a third connector pore defined within said body having a third connector pore perimeter and extending from said central bore to said outer surface said third connector pore perimeter overlapping said second radial gas hole perimeter, said third connector pore also connected to a third radial gas hole defined within said body, having a third radial gas hole perimeter and extending from said central bore to said outer surface, said third radial gas hole perimeter overlapping said third connector pore perimeter.

12. The muzzle brake of claim 3 wherein said body further defines an internal chamber positioned about said central bore proximate to said first end within said body and extending to said opening.

13. A muzzle brake for use with a firearm having a muzzle, said muzzle brake for reducing recoil while discharging said firearm, said muzzle brake comprising:

a cylinder having a first end adapted for attachment to a firearm, an outer surface extending from said first end to a second end along a longitudinal axis, a central bore, a plurality of radial gas holes, and at least one opening within said outer surface having a longitudinal dimension and a lateral dimension wherein said longitudinal dimension is greater than said lateral dimension;

wherein said first end is configured for attachment to the muzzle of a firearm;

wherein said central bore is of a desired diameter extending through the cylinder along said longitudinal axis;

wherein said radial gas holes are linearly disposed along the longitudinal axis of the cylinder each gas hole having a perimeter and a diameter smaller than said central bore, and extending radially from said central bore to said outer surface.

14. The muzzle brake of claim 13 wherein said opening is a first radial gas hole defined within said cylinder having a first radial gas hole perimeter, and extending from said central bore to said outer surface connected to a first channel defined within said outer surface, said first channel also connected to a second radial gas hole defined within said cylinder having a second radial gas hole perimeter, and extending radially from said central bore to said outer surface; said second radial gas hole being connected to a second channel, defined within said outer surface, said second channel also connected to a third gas hole defined within said cylinder having a third gas hole perimeter and extending from said central bore to said outer surface.

15. The muzzle brake of claim 15 wherein said first channel and said second channel extend from said outer surface to said central bore.

16. The muzzle brake of claim 13 wherein said opening is a first radial gas hole defined within said cylinder having a first radial gas hole perimeter, and extending from said central bore to said outer surface, said first radial gas hole connected to a second radial gas hole defined within said cylinder having a second radial gas hole perimeter, and extending radially from said central bore to said outer surface cylinder, wherein said first radial gas hole perimeter overlaps said second gas hole perimeter.

17. The muzzle brake of claim 13 wherein said opening is a first connector pore defined within said cylinder having a first connector pore perimeter and extending from said central bore to said outer surface, said first connector pore connected to a first radial gas hole defined within in said cylinder having a first radial gas hole perimeter and extending from said central bore to said outer surface, said first connector pore perimeter overlapping said first radial gas hole perimeter, said first radial gas hole also connected to a second connector pore defined within said cylinder having a second connector pore perimeter and extending from said central bore to said outer surface, said second connector pore perimeter overlapping said first radial gas hole perimeter, said second connector pore also connected to a second radial gas hole defined within said cylinder having a second radial gas hole perimeter and extending from said central bore to said outer surface, said second radial gas hole perimeter overlapping said second connector pore perimeter, said second radial gas hole also connected to a third connector pore defined within said cylinder having a third connector pore perimeter and extending from said central bore to said outer surface said third connector pore perimeter overlapping said second radial gas hole perimeter, said third connector pore also connected to a third radial gas hole defined within said cylinder, having a third radial gas hole perimeter and extending from said central bore to said outer surface, said third radial gas hole perimeter overlapping said third connector pore perimeter.

18. A muzzle brake for reducing recoil while discharging a firearm having a muzzle, said muzzle brake comprising:

a cylinder having a first end, a first end portion adapted for attachment to a firearm, an outer surface extending from said first end to a second end along a longitudinal axis, a central bore of a desired diameter extending through the cylinder along said longitudinal axis, a circumvolving groove within said cylinder surrounding said central bore and adjacent to said first end portion adapted for attachment to a firearm, a plurality of radial gas holes, each having a perimeter, and at least one opening within said outer surface having a longitudinal dimension and a lateral dimension wherein said longitudinal dimension is greater than said lateral dimension;

wherein said gas holes are linearly disposed along the longitudinal axis of the cylinder each gas hole having a perimeter and a diameter smaller than said central bore, and extends radially from said central bore to said outer surface;

wherein said opening is a first connector pore defined within said cylinder having a first connector pore perimeter and extending from said central bore to said outer surface, said first connector pore connected to a first radial gas hole defined within in said cylinder having a first radial gas hole perimeter and extending from said central bore to said outer surface, said first connector pore perimeter overlapping said first radial gas hole perimeter, said first radial gas hole also connected to a second connector pore defined within said cylinder having a second connector pore perimeter and extending from said central bore to said outer surface, said



second connector pore perimeter overlapping said first radial gas hole perimeter, said second connector pore also connected to a second radial gas hole defined within said cylinder having a second radial gas hole perimeter and extending from said central bore to said outer surface, said second radial gas hole perimeter overlapping said second connector pore perimeter, said second radial gas hole also connected to a third connector pore defined within said cylinder having a third connector pore perimeter and extending from said central bore to said outer surface said third connector pore perimeter overlapping said second radial gas hole perimeter, said third connector pore also connected to a third radial gas hole defined within said cylinder, having a third radial gas hole perimeter and extending from said central bore to said outer surface, said third radial gas hole perimeter overlapping said third connector pore perimeter.